

FIG.1A

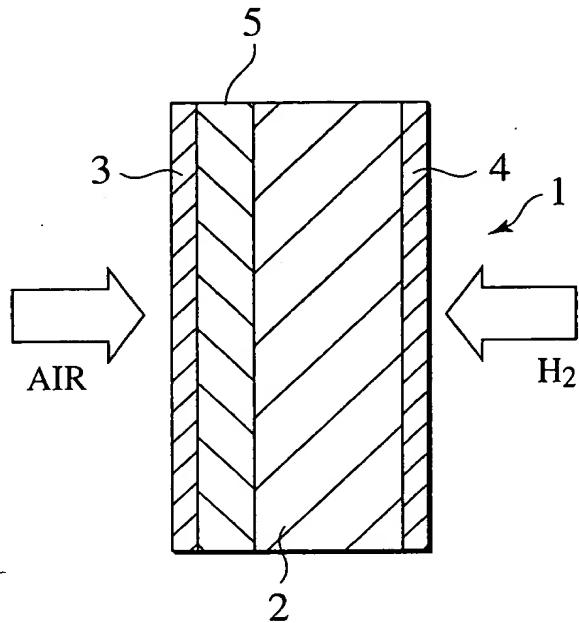


FIG.1B

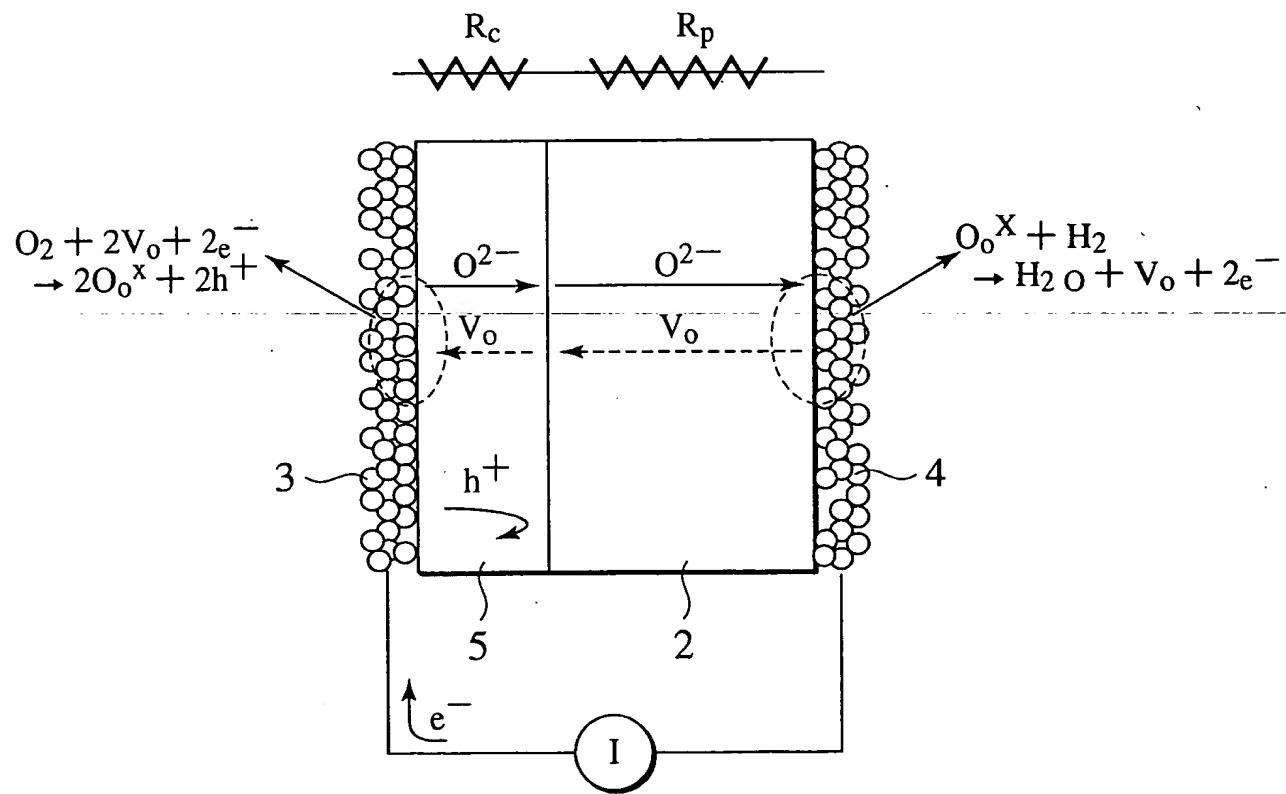


FIG.2

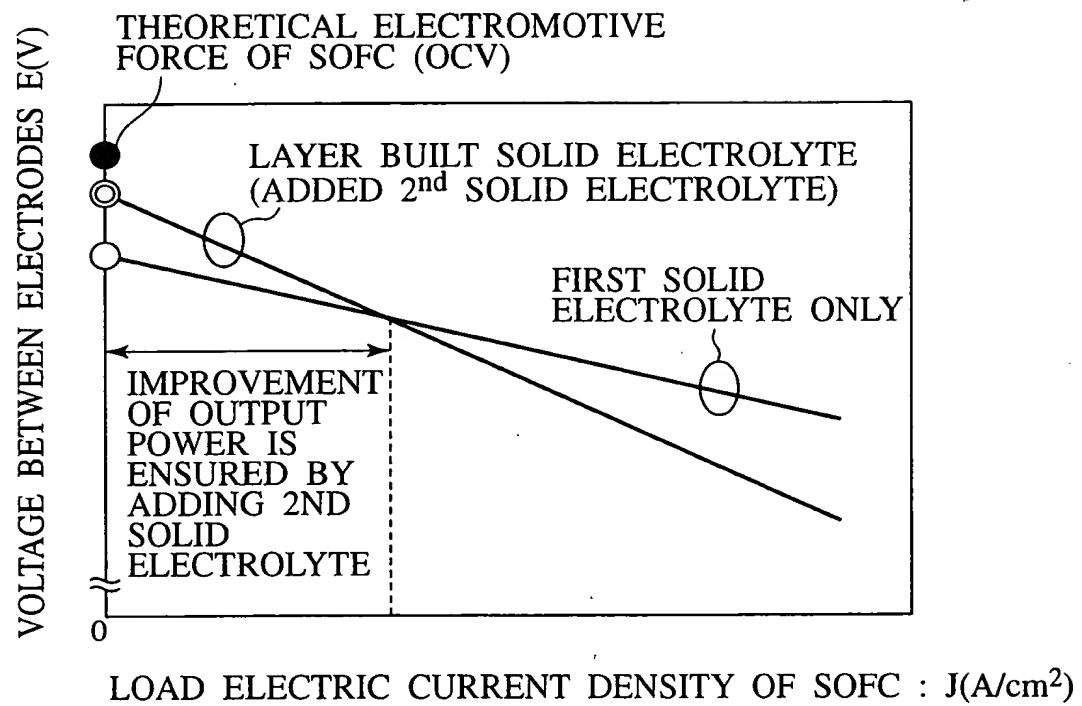


FIG.3A

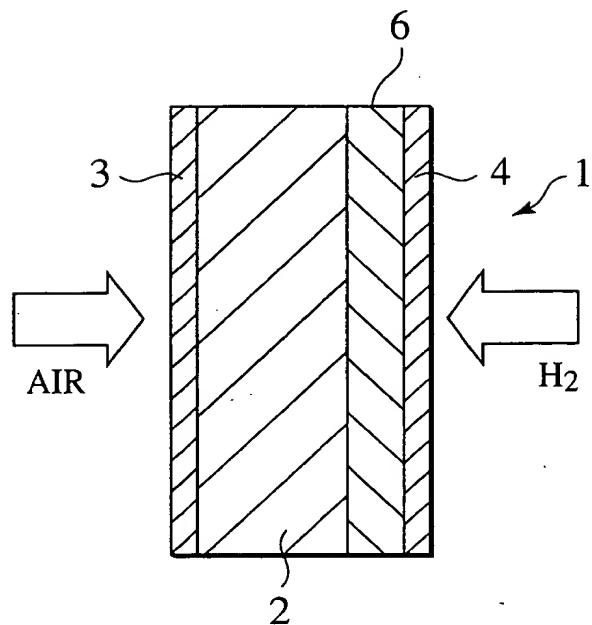


FIG.3B

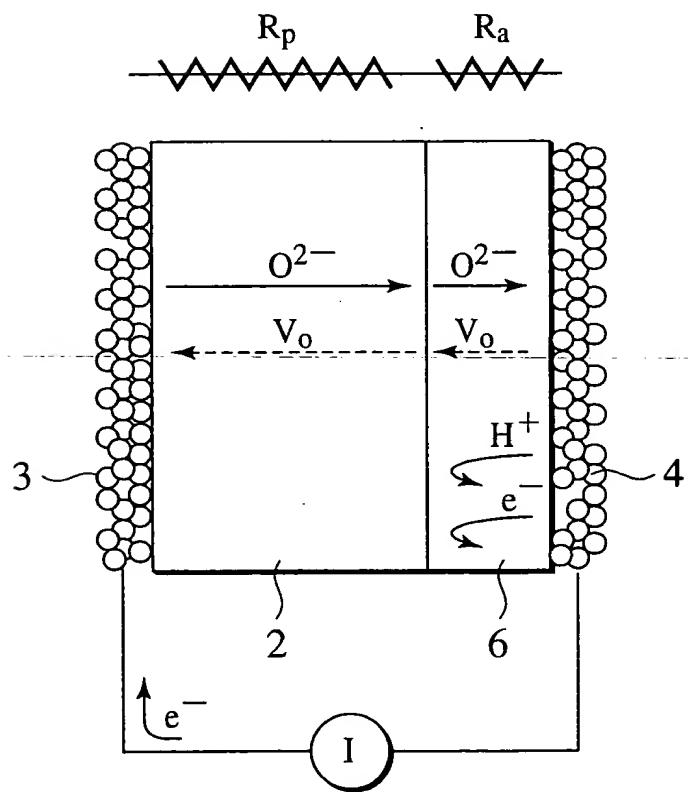


FIG.4A

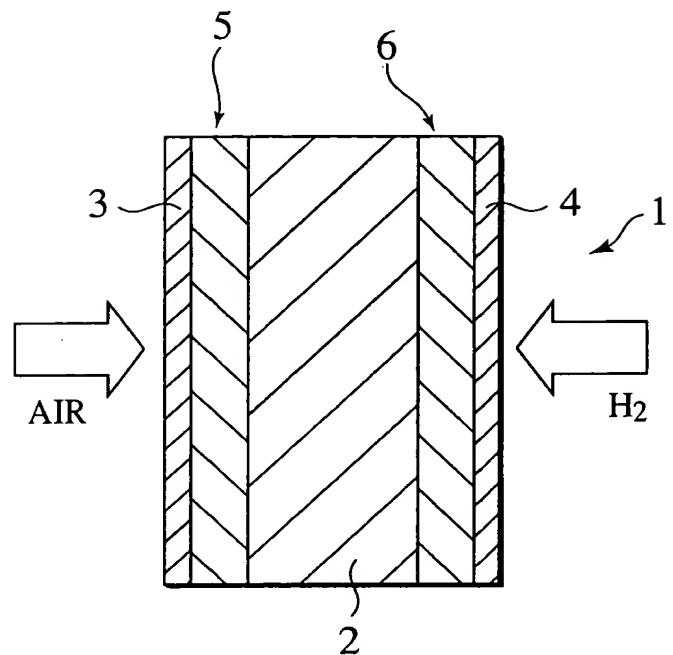


FIG.4B

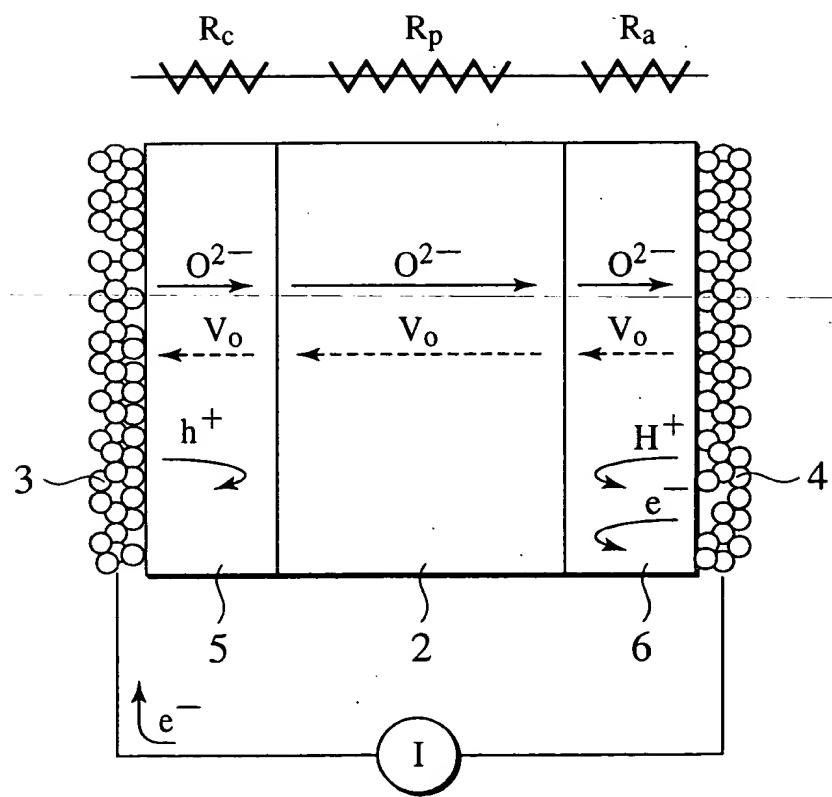


FIG.5

No.	Layer-built solid electrolyte (2nd SE / 1st SE / 3rd SE)	Ion conductivity [ $\sigma$ ]	Ion transport number [ Toi ]
Example 1-a	YSZ / La <sub>0.75</sub> Nd <sub>0.15</sub> Sr <sub>0.1</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3-d</sub>	0.017 S/cm	94%
Example 1-b	YSZ / La <sub>0.8</sub> Sm <sub>0.1</sub> Ba <sub>0.1</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3-d</sub>	0.017 S/cm	94%
Example 2-a	SDC / La <sub>0.75</sub> Nd <sub>0.15</sub> Sr <sub>0.1</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3-d</sub>	0.018 S/cm	94%
Example 2-b	SDC / La <sub>0.8</sub> Sm <sub>0.1</sub> Ba <sub>0.1</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3-d</sub>	0.018 S/cm	94%
Example 3-a	La <sub>0.75</sub> Nd <sub>0.15</sub> Sr <sub>0.1</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3-d</sub> / YSZ	0.017 S/cm	96%
Example 3-b	La <sub>0.8</sub> Sm <sub>0.1</sub> Ba <sub>0.1</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3-d</sub> / YSZ	0.017 S/cm	96%
Example 4-a	YSZ / La <sub>0.75</sub> Nd <sub>0.15</sub> Sr <sub>0.1</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3-d</sub> / YSZ	0.016 S/cm	99%
Example 4-b	YSZ / La <sub>0.8</sub> Sm <sub>0.1</sub> Ba <sub>0.1</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3-d</sub> / YSZ	0.016 S/cm	99%
Example 5-a	SDC / La <sub>0.75</sub> Nd <sub>0.15</sub> Sr <sub>0.1</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3-d</sub> / YSZ	0.017 S/cm	99%
Example 5-b	SDC / La <sub>0.8</sub> Sm <sub>0.1</sub> Ba <sub>0.1</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3-d</sub> / YSZ	0.017 S/cm	99%
Comparative Example a	La <sub>0.75</sub> Nd <sub>0.15</sub> Sr <sub>0.1</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3-d</sub>	0.018 S/cm	91%
Comparative Example b	La <sub>0.8</sub> Sm <sub>0.1</sub> Ba <sub>0.1</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3-d</sub>	0.018 S/cm	91%